US ENVIRONMENTAL PROTECTION AGENCY
Region 1 New England - OEME
11 Technology Drive, North Chelmsford, MA 01863

Inspection Report

Date:	November 14, 2013
Subject:	Mountainview Dairy - Concentrated Animal Feeding Operation (CAFO) Inspection
Prepared by:	Lisa Thuot – USEPA Compliance Inspector

I. Facility Information:

Name:	Mountainview Dairy
Location:	Silver Lake Road Georgia, VT 05454
Owner/Operator:	Giles Rainville Jr., Operator
Mailing Address:	1624 Highbridge Rd. Georgia, VT 05454

II. Inspection Information:

Date of Inspection:	August 20, 2013
EPA Inspector(s):	Lisa Thuot – Compliance Inspector (EPA Region 1/OEME) Diane Boisclair – Compliance Inspector (EPA Region 1/OES)
Facility Contact(s) During Inspection:	Gilles Rainville, Jr., Operator/Manager Tim Way, Herdsman
State Contact(s):	Trevor Lewis, Vermont Agency of Agriculture Marli Rupe, Vermont Dept. of Environmental Conservation
Weather Conditions:	Approx. 85°F

III. Purpose of Inspection:

The purpose of the inspection was to assess applicability of and compliance with the CAFO requirements under the Clean Water Act at 40 C.F.R. Part 122.23.

Entry Procedures
The inspection was announced about 24 hours in advance by telephone to Gilles Rainville, Jr. On the inspection day, EPA staff presented their inspector credentials to Mr. Rainville Jr., who provided a tour of the farm with Mr. Way.

IV. Inspection Information/Findings

Mountainview Dairy ("the farm") is a dairy operation owned by Mr. Rainville's father, Gilles Rainville Sr., since the 1960s. Mr. Rainville Jr. is the operator and manager of the farm, which has 180 milking cows. Heifers are raised at a separate facility in Sheldon, VT, which the Rainville family does not own or manage.

The farm has approximately 900 acres. Corn and hay are grown on 400 acres in Georgia, and on 60 rented acres in Milton. The nutrient management plan (NMP) was developed through the University of Vermont Extension service in Middlebury. The NMP was last updated in spring 2013. The farm has a permit with the Vermont Agency of Agriculture as a medium farm operation (MFO). Manure land application is done by an outside contractor, since the farm does not have spreading equipment. The farm property drains south toward Beaver Meadow Brook and the Lamoille River via drainage channels and unnamed streams.

The farm has two clay-lined manure pits located side-by-side outside the main barn. The pits have not been expanded, but an earthen berm was added between them. The barn contains two hoppers for manure collection. A skid steer scrapes the animal stalls, and manure flows by gravity from the barn hoppers to the pits. Pit #1 receives manure from one section of the barn which contains about 60 cows, and pit #2 receives the majority of manure. During land application, manure is transferred from pit #1 to pit #2 because the contractor typically pulls manure for land application from pit #2. During the inspection, there was sufficient volume and freeboard in both manure pits. Pit #1 had some sumac and woody vegetation on its west bank, and pit #2 had a tree and some woody vegetation on its west bank (pictures #1-2). Inspectors recommended removing or cutting back this vegetation from the manure pit banks.

In the milk house tank room, a floor drain collects milk tank wash/rinse water and boot wash water (picture #3). The floor drain is connected to a pipe which discharges outside. Mr. Rainville Jr. and Mr. Way showed us the approximate location where the pipe discharges to a vegetated swale located south of the manure pits (picture #4). Inspectors could not see the pipe due to thick vegetation, and the discharge area was dry during the inspection. The swale is oriented to flow southeast to an unnamed stream [#1] to Beaver Meadow Brook, a tributary to the Lamoille River. Stream #1 passes through a cow grazing area on the east side; the stream is fenced off and has a dirt path crossing for cows walking to an adjoining grazing lot (picture #5).

The farm has plans to install a leachate/runoff collection system for the silage and hay storage area, including new asphalt surface storage pads. Mr. Rainville Jr. is working with the VT Agency of Agriculture to secure project funds, potentially through NRCS. The work is expected to be completed in 1-2 years. A new asphalt pad with tile under-drains was installed about two months ago in a section of the silage area (picture #6). Runoff from the new asphalt pad flows

through a layer of crushed stone into a ditch (pictures #7-8). Mr. Rainville Jr. said the new ditch was installed to divert hillside runoff away from the new asphalt pad. The new ditch flows into a field/pasture which borders an unnamed stream [#2] which flows to Beaver Meadow Brook (picture #9). The older cement silage bunker (picture #10) will be torn down in fall 2013, according to Mr. Rainville, Jr. Runoff from the concrete bunker flows south toward a dirt roadside ditch, which was dry during the inspection.

V. Exit Briefing

EPA inspectors conducted an exit briefing with Mr. Rainville Jr. and Mr. Way. Trevor Lewis and Marli Rupe were also present. The following items were summarized:

- The milk house tank room floor drain discharges outside to a vegetated swale, which appears to flow southeast toward unnamed stream #1 which connects to Beaver Meadow Brook. The discharge area was dry during the inspection, and inspectors could not see the pipe due to thick vegetation.
- Some runoff from the silage/hay storage area flows to unnamed stream #2 which connects to Beaver Meadow Brook. The farm plans to install a new leachate/runoff collection system within the next 1-2 years. One new asphalt storage pad was recently installed. A new ditch was added to divert hillside storm runoff away from the new asphalt pad.

Enclosures/Attachments:

Inspection Pictures